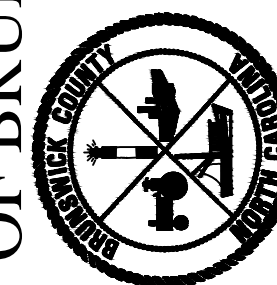


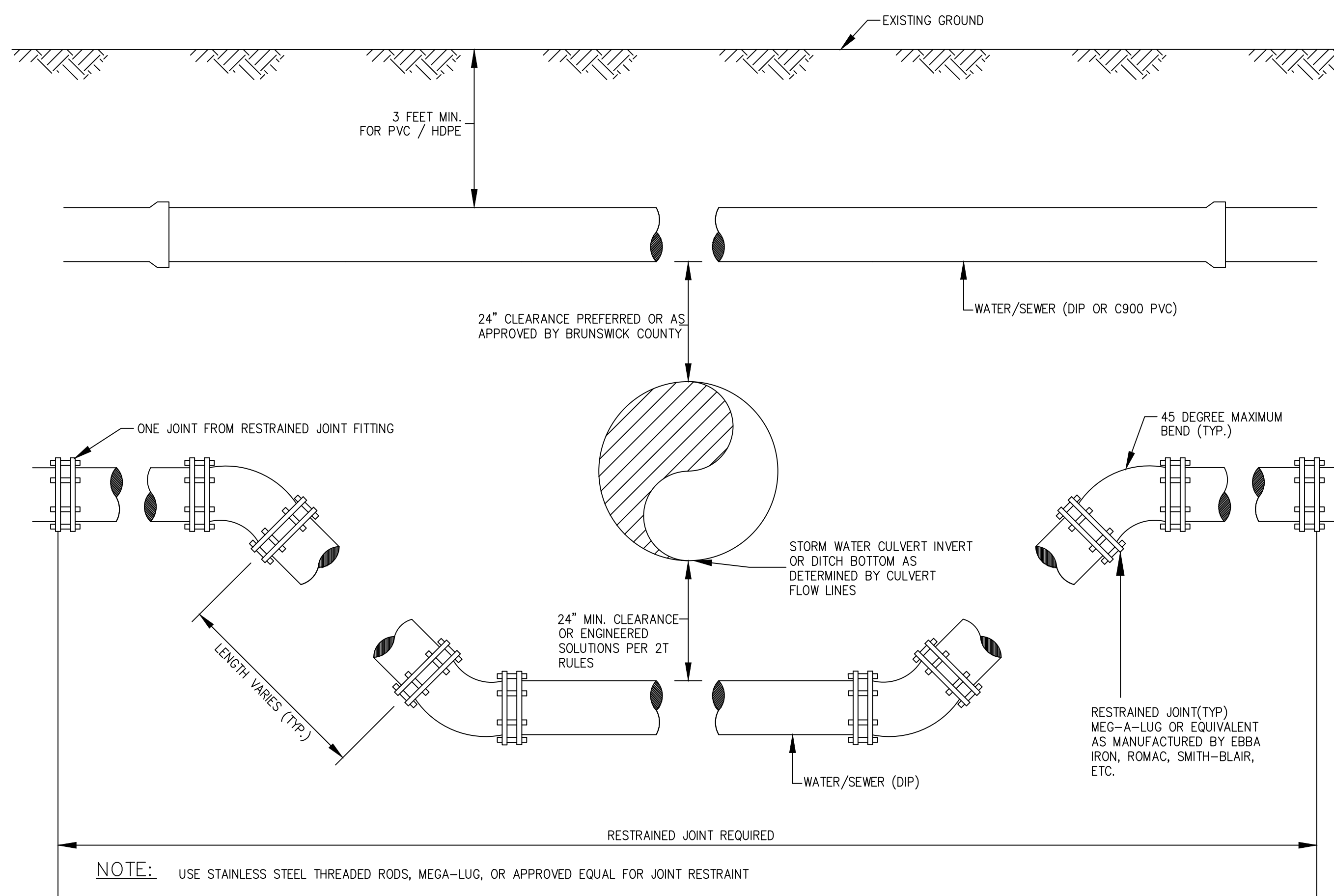
Revisions
1.1 - DATED 4/30/2013 Modified WS-1, 2, AND 3

COUNTY OF BRUNSWICK

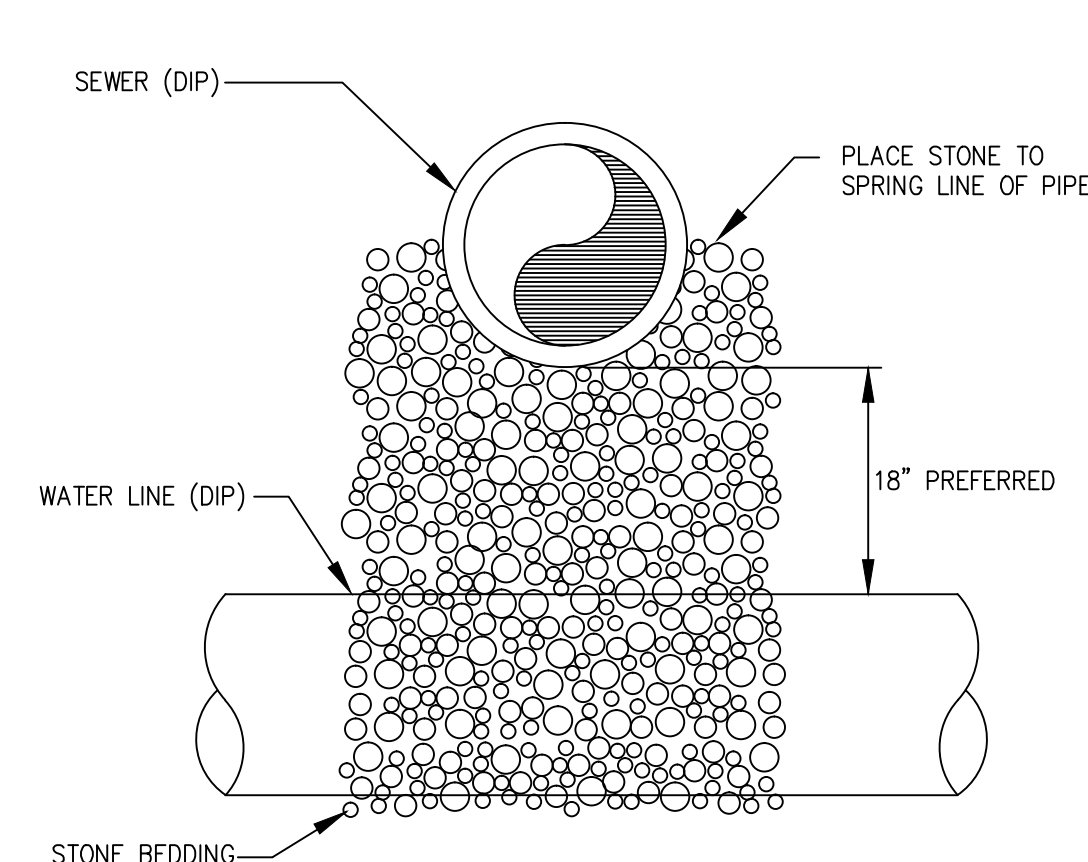


GENERAL WATER & SEWER DETAILS
FOR
BRUNSWICK COUNTY
NORTH CAROLINA

Date: 06-05-12
Scale: NTS
Drawn By: JDM
Checked By: WLP



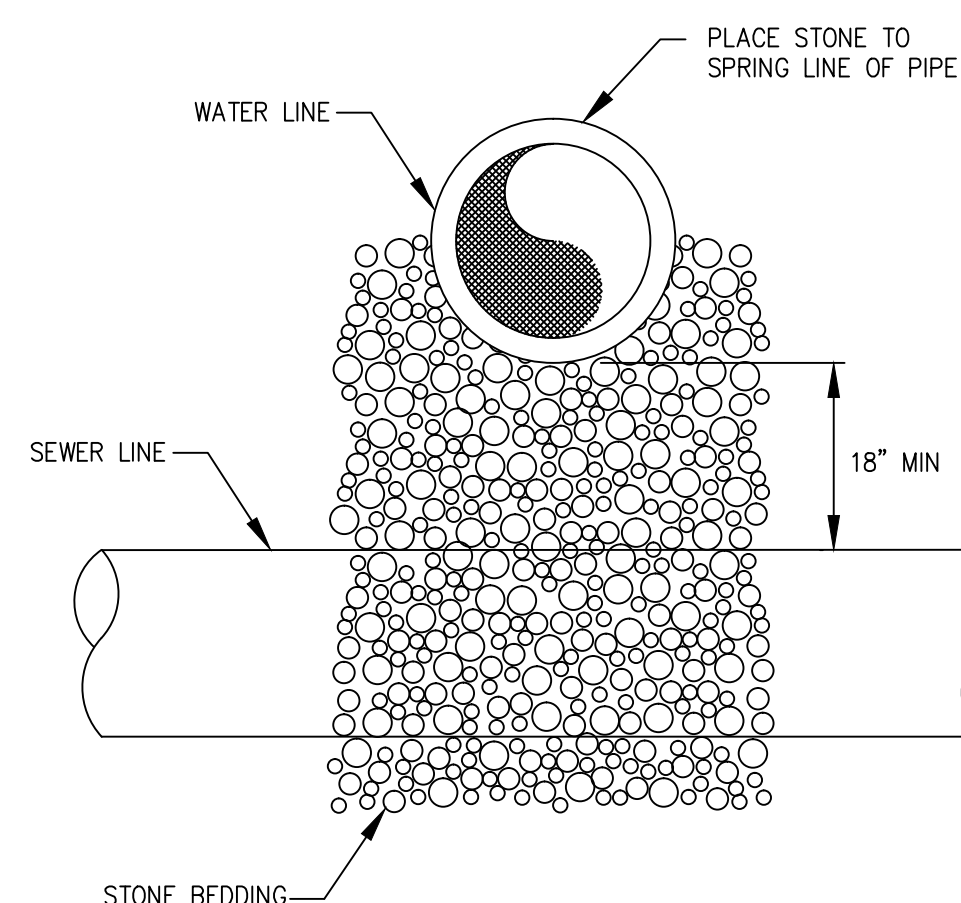
DITCH AND/OR STORM DRAIN CROSSING
OFFSETS BETWEEN WATER/SEWER
PRESSURE MAIN AND STORM DRAIN
DETAIL WS-1



NOTES:

1. BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING.
2. ALTERNATIVELY, PIPES MAY BE SLEEVED WITH FERROUS MATERIALS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING AS APPROVED BY BRUNSWICK COUNTY ENGINEERING.

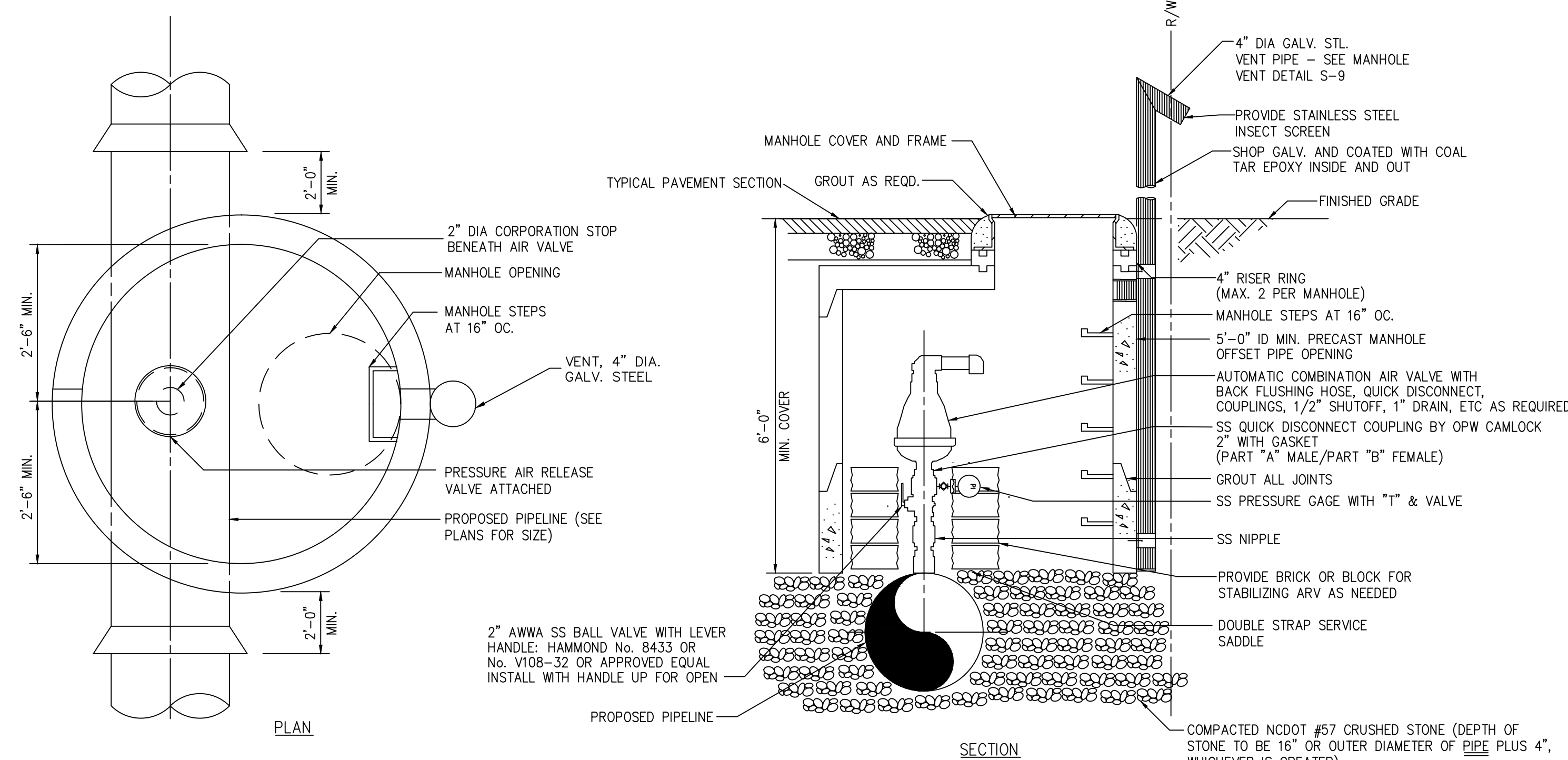
SEWER CROSSING ABOVE WATER LINE



NOTES:

1. SOIL REPLACED UNDER THE WATER MAIN SHALL BE COMPACTED.
2. IF THE WATER MAIN CROSSES AT LESS THAN 18" ABOVE THE SEWER MAIN BOTH THE WATER MAIN AND THE SEWER MAIN SHALL BE FERROUS MATERIALS WITH JOINTS EQUIVALENT TO WATER MAIN STANDARDS FOR A MINIMUM DISTANCE OF 10 FEET ON EACH SIDE OF THE CROSSING, OR THEY MAY HAVE FERROUS SLEEVES PUT AROUND THEM AS APPROVED BY BRUNSWICK COUNTY ENGINEERING.

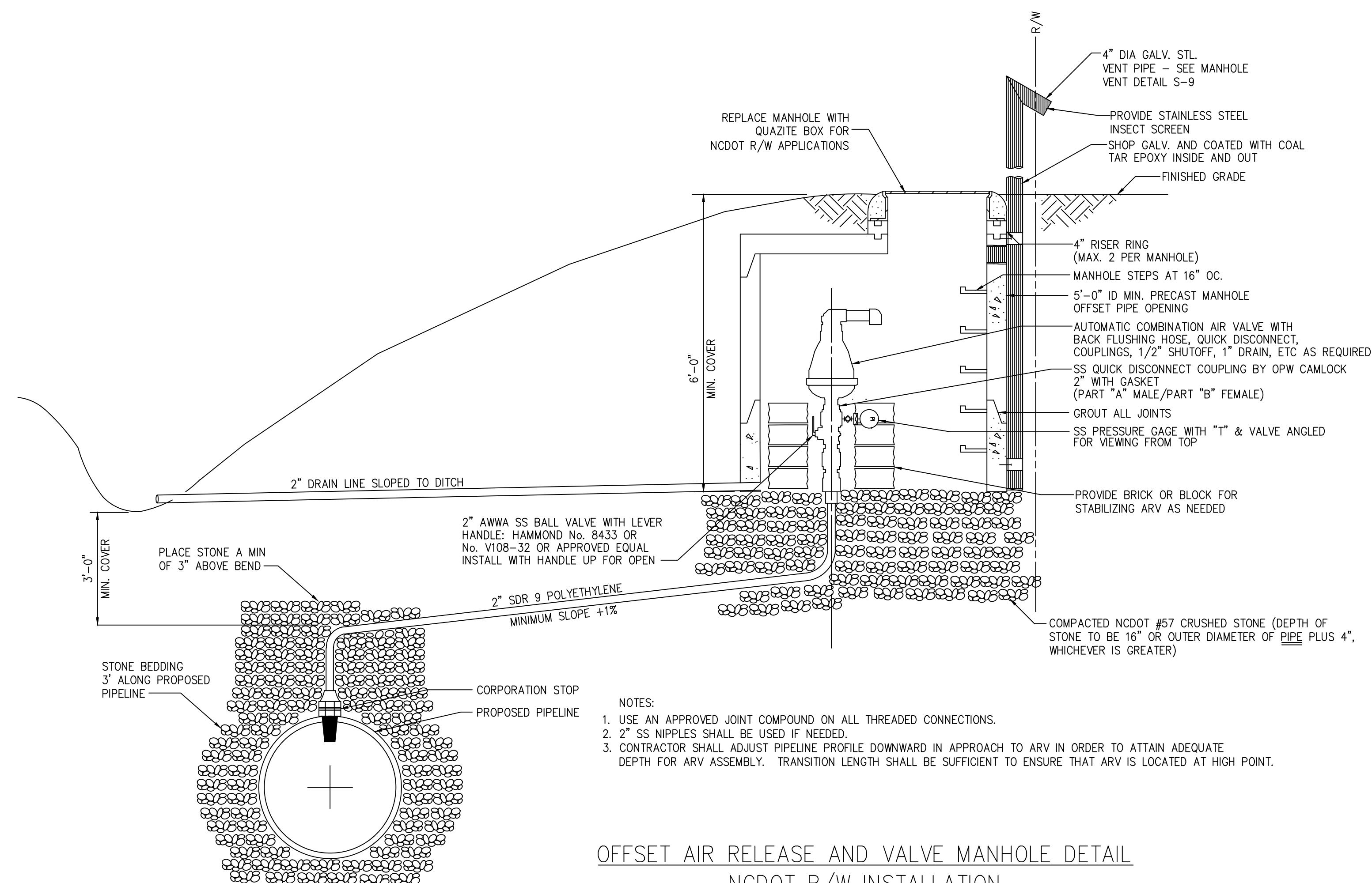
SEWER CROSSING BELOW WATER LINE



NOTES:

1. USE AN APPROVED JOINT COMPOUND ON ALL THREADED CONNECTIONS.
2. 2" SS NIPPLES SHALL BE USED IF NEEDED.
3. CONTRACTOR SHALL ADJUST PIPELINE PROFILE DOWNWARD IN APPROACH TO ARV IN ORDER TO ATTAIN ADEQUATE DEPTH FOR ARV ASSEMBLY. TRANSITION LENGTH SHALL BE SUFFICIENT TO ENSURE THAT ARV IS LOCATED AT HIGH POINT.

STANDARD MANHOLE AND AIR RELEASE VALVE
NON-NCDOT R/W
DETAIL WS-2



NOTES:

1. USE AN APPROVED JOINT COMPOUND ON ALL THREADED CONNECTIONS.
2. 2" SS NIPPLES SHALL BE USED IF NEEDED.
3. CONTRACTOR SHALL ADJUST PIPELINE PROFILE DOWNWARD IN APPROACH TO ARV IN ORDER TO ATTAIN ADEQUATE DEPTH FOR ARV ASSEMBLY. TRANSITION LENGTH SHALL BE SUFFICIENT TO ENSURE THAT ARV IS LOCATED AT HIGH POINT.

OFFSET AIR RELEASE AND VALVE MANHOLE DETAIL
NCDOT R/W INSTALLATION
DETAIL WS-3